

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q94473

Yoshiaki SONOBE, et al.

Appln. No.: Based on PCT/JP2005/011926

Confirmation No.: Unknown

Group Art Unit: Unknown

Filed: April 21, 2006

Examiner: Unknown

For: PERPENDICULAR MAGNETIC RECORDING DISK AND MANUFACTURING  
METHOD THEREOF

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

**MAIL STOP AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after

INFORMATION DISCLOSURE STATEMENT  
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filings a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a Communication from a foreign patent office in a counterpart application citing such documents, together with an English-language version (if not already included) of at least that portion of the Communication indicating the degree of relevance found by the foreign patent office.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations: English language abstracts, submitted herewith, constitute concise statements of relevance for JP-A-2003-272121, JP-A-2004-192711, JP-A-2004-310910, JP-A-2002-92865, and for non-patent literature documents (articles) by H. MURAOKA and by S. TAKENOIRI, et al. Further, JP-A-2002-92865 is cited on page 2 in the specification of the above-identified application.

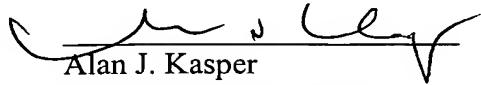
The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

10/576755  
IAP15 Rec'd PCT/PTO 21 APR 2006

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The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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WASHINGTON OFFICE  
23373  
CUSTOMER NUMBER

Date: April 21, 2006

MODIFIED PTO/SB/08 A & B (06-03)

Complete if Known: 5/6/55

**Substitute for Form 1449 A & B/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet

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Application Number	Based on PCT/JP2005/011926
Confirmation Number	Unknown
Filing Date	April 21, 2006
First Named Inventor	Yoshiaki SONOBE
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	Q94473

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## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code <sup>2</sup> (if known)		
		US 6,468,670	B1	10-22-2002	Y. IKEDA, et al.
		US			
		US			
		US			

## FOREIGN PATENT DOCUMENTS

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation <sup>6</sup>
		Y. SONOBE, et al., "Thermally Stable CGC Perpendicular Recording Media With Pt-Rich CoPtCr and Thin Pt Layers", IEEE Transactions on Magnetics, Vol. 38, No. 5, September 2002, pp. 2006-2011	
		T. OIKAWA, et al., "Microstructure and Magnetic Properties of CoPtCr-SiO <sub>2</sub> Perpendicular Recording Media", IEEE Transactions on Magnetics Vol. 38, No. 5, September 2002, pp. 1976-1978	
		Y. SONOBE, et al., "Thermal Stability and SNR of Coupled Granular/Continuous Media", IEEE Transactions on Magnetics Vol. 37, No. 4, July 2001, pp. 1667-1670	
		H. MURAOKA, "Migration Pathway to Next Generation Perpendicular Magnetic Recording", Article for the 135 <sup>th</sup> Topical Symposium of the Magnetic Society of Japan, March 12, 2004	Abstract
		S. TAKENOIRI, et al., "Development and Issue of CoPtCr-SiO <sub>2</sub> Perpendicular Recording Media", Article for the 135 <sup>th</sup> Topical Symposium of the Magnetic Society of Japan, March 12, 2004	Abstract

<b>Examiner Signature</b>		<b>Date Considered</b>	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.